

Biotinylated Human Integrin alpha V beta 8 (ITGAV&ITGB8) Heterodimer Protein, Ultra Low Endotoxin



Cat. No. ITG-HM4V8B-UL

Description	
Source	Recombinant Biotinylated Human Integrin alpha V beta 8 (ITGAV&ITGB8) Heterodimer Protein is expressed from HEK293 with His tag and Avi tag at the C-Terminus of ITGAV. It contains Phe31-Val992(ITGAV) acidic tail and Glu43-Arg684(ITGB8) basic tail.
Accession	P06756-1(ITGAV)&P26012-1(ITGB8)
Molecular Weight	The protein has a predicted MW of 114 kDa (ITGAV) and 76 kDa (ITGB8). Due to glycosylation, the protein migrates to 85-145 kDa based on Bis-Tris PAGE result.
Endotoxin	Less than 0.01 EU per μ g by the LAL method.
Purity	> 95% as determined by Bis-Tris PAGE > 90% as determined by HPLC

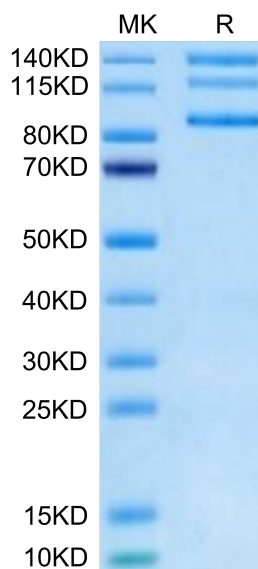
Formulation and Storage	
Formulation	Lyophilized from 0.22 μ m filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Dissolve the lyophilized protein in distilled water. Please refer to the Certificate of Analysis for detailed instructions.
Storage	-20 to -80°C for 12 months as supplied from date of receipt. -80°C for 3 months after reconstitution. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

Background

Deletions of the genes encoding the integrin α V β 8 (Itgav, Itgb8) have been shown to result in abnormal vascular development in the CNS, including prenatal and perinatal hemorrhage. Other work has indicated that a major function of this integrin in vivo is to promote TGF β activation.

Assay Data

Bis-Tris PAGE



Biotinylated Human Integrin alpha V beta 8 (ITGAV&ITGB8) Heterodimer on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

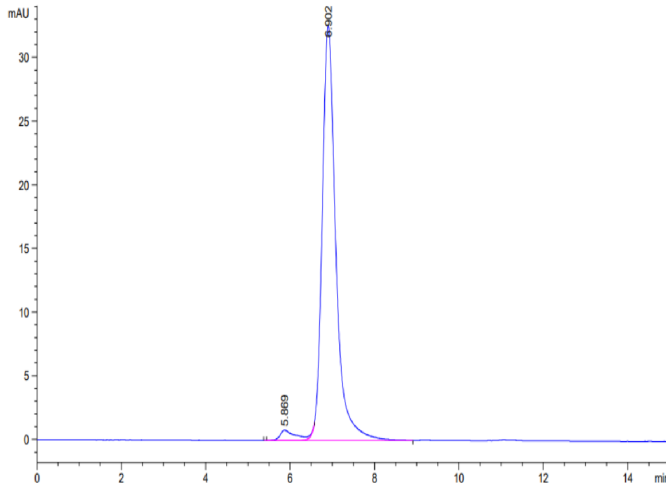
SEC-HPLC

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Assay Data

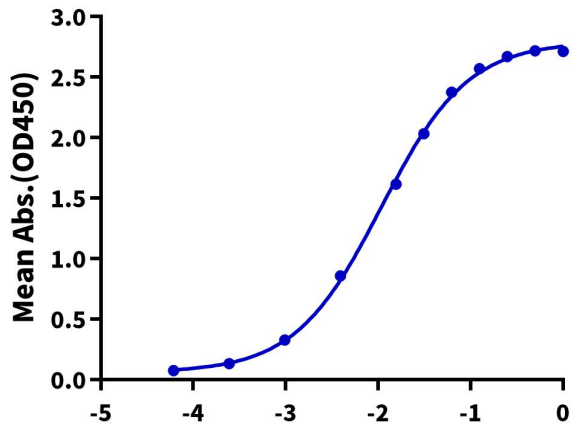


The purity of Biotinylated Human Integrin alpha V beta 8 (ITGAV&ITGB8) Heterodimer is greater than 90% as determined by SEC-HPLC.

ELISA Data

Biotinylated Human ITGAV&ITGB8, His Tag ELISA

0.2µg Biotinylated Human ITGAV&ITGB8, His Tag Per Well

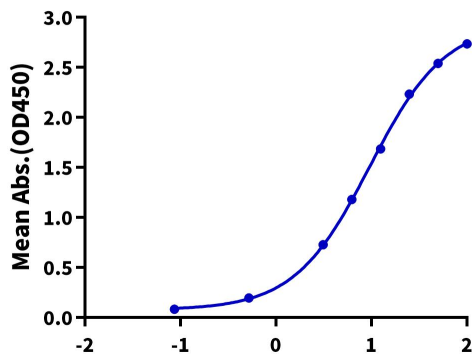


Immobilized Biotinylated Human ITGAV&ITGB8, His Tag at 2µg/ml (100µl/well) on the streptavidin precoated plate (5µg/ml). Dose response curve for Anti-alpha V Antibody, hFc Tag with the EC50 of 10.8ng/ml determined by ELISA.

Log Anti-alpha V Antibody, hFc Tag Conc.(µg/ml)

Biotinylated Human ITGAV&ITGB8, His Tag ELISA

0.5µg Human Latent TGF beta 1, HisTag Per Well



Immobilized Human Latent TGF beta 1, His Tag at 5µg/ml (100µl/well) on the plate. Dose response curve for Biotinylated Human ITGAV&ITGB8, His Tag with the EC50 of 9.62ug/ml determined by ELISA.

Log Biotinylated Human ITGAV&ITGB8,His Tag Conc.(µg/ml)